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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Grégory PLOS

Application No.: 09/820,016 Group Art Unit: 1751

Filed: March 29, 2001 Examiner: Elhilo, E.

For: COMPOSITIONS FOR THE OXIDATION DYEING OF KERATINOUS FIBERS COMPRISING AT LEAST ONE OXIDATION DYE AND AT LEAST ONE ENZYMATIC OXIDIZING AGENT, AND DYEING METHODS

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

REQUEST FOR CORRECTED PATENT APPLICATION PUBLICATION UNDER 37 C.F.R. § 1.221(b)

On February 7, 2002, the Office published the above-identified application No. 09/820,016 as Publication No. US-2002-0013973-A1. The published application contains material mistakes that are the fault of the Office. Attached hereto is a copy of each relevant page of the originally filed application and a marked-up copy of the corresponding page of the published application containing the mistakes.

A mistake is material when it affects the public's ability to appreciate the technical disclosure of the patent application publication or determine the scope of the provisional

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rights that an Applicant may seek to enforce upon issuance of a patent. *See* C.F.R. § 1.221(b).

The mistakes, which are indicated in red ink on the relevant pages of the marked-up copy of the published application attached hereto, are as follows:

In claim 26, line 2, after "2-electron" insert --oxidoreductase is chosen from pyranose oxidases, glucose oxidases, glycerol--.

In claim 32, line 3, the published application reads "108" whereas it should read --10^8--.

Both of these errors are material in that they would affect the public's ability to appreciate the technical disclosure of the patent application publication or determine the scope of any provisional rights. Accordingly, Applicant requests that the Office correct the above-identified mistakes in the published application. Further, Applicant requests that the Office forward a copy of the corrected published application or at least a notification of the occurrence of predicted occurrence of the corrected publication once it has been corrected.

Applicant submits that this Request for Corrected Patent Application Publication is made within two months from publication of the above-identified application (April 7, 2002 being a Sunday).

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Applicant believes that no Petition or fee is due in connection with this Request. However, is any Petition or fee is due, please grant the Petition and charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Dated: April 8, 2002

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a]pyrimidine-3,7-diamine and 3-amino-5-methyl-7-imidazolylpropylaminopyrazolo[1,5-a]pyrimidine, a corresponding tautomeric form thereof, when a tautomeric equilibrium exits, and acid addition salts thereof.

23. A composition according to claim 19, wherein said pyrazole derivatives are chosen from 4,5-diamino-1-methylpyrazole, 3,4-diaminopyrazole, 4,5-diamino-1-(4'-chlorobenzyl)pyrazole, 4,5-diamino-1,3-dimethylpyrazole, 4,5-diamino-3-methyl-1-phenylpyrazole, 4,5-diamino-1-methyl-3-phenylpyrazole, 4-amino-1,3-dimethyl-5-hydrazinopyrazole, 1-benzyl-4,5-diamino-3-methylpyrazole, 4,5-diamino-3-tert-butyl-1-methylpyrazole, 4,5-diamino-1-tert-butyl-3-methylpyrazole, 4,5-diamino-1-(ß-hydroxyethyl)-3-methylpyrazole, 4,5-diamino-1-ethyl-3-methylpyrazole, 4,5-diamino-1-ethyl-3-(4'-methoxyphenyl)pyrazole, 4,5-diamino-1-ethyl-3-hydroxymethylpyrazole, 4,5-diamino-3-hydroxymethyl-1-methylpyrazole, 4,5-diamino-3-hydroxymethyl-1-isopropylpyrazole, 4,5-diamino-3-methyl-1-isopropylpyrazole, 4-amino-5-(2'-aminoethyl)amino-1,3-dimethyl-pyrazole, 3,4,5-triaminopyrazole, 1-methyl-3,4,5-triaminopyrazole, 3,5-diamino-1-methyl-4-methylaminopyrazole, 3,5-diamino-4-(ß-hydroxyethyl)amino-1-methylpyrazole, and acid addition salts thereof.

24. A composition according to claim 6, wherein said at least one oxidation base is present in an amount ranging from 0.0005 to 12% by weight relative to the total weight of the ready-to-use dye composition.

25. A composition according to claim 24, wherein said at least one oxidation base is present in an amount ranging from 0.005 to 8% by weight relative to th total weight of the ready-to-use dye composition.

26. A composition according to claim 1, wherein said at least one 2-

electron oxidoreductase is chosen from pyranose oxidases, glucose oxidases, glycerol oxidases, lactate oxidases, pyruvate oxidases, uricases, choline oxidases, sarcosine oxidases and bilirubin oxidases.

27. A composition according to claim 26, wherein said at least one 2-electron oxidoreductase is chosen from uricases of animal, uricases of microbiological and uricases of biotechnological origin.

28. A composition according to claim 27, wherein said at least one 2-electron oxidoreductase is chosen from uricases extracted from boar's liver, *Arthrobacter globiformis* and *Aspergillus flavus*.

29. A composition according to claim 1, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 0.01 to 20% by weight relative to the total weight of the ready-to-use dye composition.

30. A composition according to claim 29, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 0.1 to 10% by weight relative to the total weight of the ready-to-use dye composition.

31. A composition according to claim 30, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 0.1 to 5% by weight relative to the total weight of the ready-to-use dye composition.

32. A composition according to claim 1, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 10 to 10^8 units U per 100 g of ready-to-use dye composition.

4-amino-2-(β-hydroxyethylaminomethyl)phenol, 4-amino-2-fluorophenol, and acid addition salts thereof.

18. A composition according to claim 7, wherein said ortho-aminophenols are chosen from 2-aminophenol, 2-amino-5-methylphenol, 2-amino-6-methylphenol and 5-acetamido-2-aminophenol, and acid addition salts thereof.

19. A composition according to claim 7, wherein said heterocyclic oxidation bases are chosen from pyridine derivatives, pyrimidine derivatives, pyrazolopyrimidine derivatives, pyrazole derivatives and acid addition salts thereof.

20. A composition according to claim 19, wherein said pyridine derivatives are chosen from 2,5-diaminopyridine, 2-(4-methoxyphenyl)amino-3-aminopyridine, 2,3-diamino-6-methoxypyridine, 2-(β-methoxyethyl)amino-3-amino-6-methoxypyridine 3,4-diaminopyridine, and acid addition salts thereof.

21. A composition according to claim 19, wherein said pyrimidine derivatives are chosen from 2,4,5,6-tetraaminopyrimidine, 4-hydroxy-2,5,6-triaminopyrimidine, 2-hydroxy-4,5,6-triaminopyrimidine, 2,4-dihydroxy-5,6-diaminopyrimidine, 2,5,6-triaminopyrimidine and acid addition salts thereof.

22. A composition according to claim 19, wherein said pyrazolopyrimidine derivatives are chosen from pyrazolo[1,5-a]pyrimidine-3,7-diamine, 2,5-dimethylpyrazolo[1,5-a]pyrimidine-3,7-diamine, pyrazolo[1,5-a]pyrimidine-3,5-diamine, 2,7-dimethylpyrazolo[1,5-a]pyrimidine-3,5-diamine, 3-aminopyrazolo[1,5-a]pyrimidin-7-ol, 3-aminopyrazolo[1,5-a]pyrimidin-5-ol, 2-(3-aminopyrazolo[1,5-a]pyrimidin-7-ylamino)ethanol, 2-(7-aminopyrazolo[1,5-a]pyrimidin-3-ylamino)ethanol, 2-[(3-aminopyrazolo[1,5-a]pyrimidin-7-yl)-(2-hydroxyethyl)amino]ethanol, 2-[(7-aminopyrazolo[1,5-a]pyrimidin-3-yl)-(2-hydroxyethyl)amino]ethanol, 5,6-dimethylpyrazolo[1,5-a]pyrimdine-3,7-diamine, 2,6-dimethylpyrazolo[1,5-a]pyrimidine-3,7-diamine, 2,5,N7,N7-tetramethylpyrazolo[1,5-a]pyrimidine-3,7-diamine and 3-amino-5-methyl-7-imidazolylpropylaminopyrazolo[1,5-a]pyrimidine, a corresponding tautomeric form thereof, when a tautomeric equilibrium exits, and acid addition salts thereof.

23. A composition according to claim 19, wherein said pyrazole derivatives are chosen from 4,5-diamino-1-methylpyrazole, 3,4-diaminopyrazole, 4,5-diamino-1-(4'-chlorobenzyl)pyrazole, 4,5-diamino-1,3-dimethylpyrazole, 4,5-diamino-3-methyl-1-phenylpyrazole, 4,5-diamino-1-methyl-3-phenylpyrazole, 4-amino-1,3-dimethyl-5-hydrazinopyrazole, 1-benzyl-4,5-diamino-3-methylpyrazole, 4,5-diamino-3-tert-butyl-1-methylpyrazole, 4,5-diamino-1-tert-butyl-3-methylpyrazole, 4,5-diamino-1-(β-hydroxyethyl)-3-methylpyrazole, 4,5-diamino-1-ethyl-3-methylpyrazole, 4,5-diamino-1-ethyl-3-(4'-methoxyphenyl)pyrazole, 4,5-diamino-1-ethyl-3-hydroxymethylpyrazole, 4,5-diamino-3-hydroxymethyl-1-methyl pyrazole, 4,5-diamino-3-hydroxymethyl-1-isopropylpyrazole, 4,5-diamino-3-methyl-1-isopropylpyrazole, 4-amino-5-(2'-aminoethyl)amino-1,3-dimethylpyrazole, 3,4,5-triaminopyrazole, 1-methyl-3,4,5-triaminopyrazole, 3,5-diamino-1-methyl-4-methylaminopyrazole, 3,5-diamino-4-(β-hydroxyethyl)amino-1-methylpyrazole, and acid addition salts thereof.

24. A composition according to claim 6, wherein said at least one oxidation base is present in an amount ranging from 0.0005 to 12% by weight relative to the total weight of the ready-to-use dye composition.

25. A composition according to claim 24, wherein said at least one oxidation base is present in an amount ranging from 0.005 to 8% by weight relative to the total weight of the ready-to-use dye composition.

26. A composition according to claim 1, wherein said at least one 2-electron oxidoreductase is chosen from pyranose oxidases, lactate oxidases, pyruvate oxidases, uricases, choline oxidases, sarcosine oxidases and bilirubin oxidases.

OXIDOREDUCTASE IS CHOSEN FROM PYRANOSE OXIDASES, GLUCOSE OXIDASES, GLYCEROL

27. A composition according to claim 26, wherein said at least one 2-electron oxidoreductase is chosen from uricases of animal, uricases of microbiological and uricases of biotechnological origin.

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31. A composition according to claim 30, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 0.1 to 5% by weight relative to the total weight of the ready-to-use dye composition.

32. A composition according to claim 1, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 10 to 10[8] units U per 100 g of ready-to-use dye composition. 10^8

33. A composition according to claim 1, wherein said at least one donor is present in an amount ranging from 0.01 to 20% by weight relative to the total weight of the ready-to-use dye composition.

34. A composition according to claim 33, wherein said at least one donor is present in an amount ranging from 0.1 to 5% by weight relative to the total weight of the ready-to-use dye composition.

35. A composition according to claim 1, wherein said at least one 4-electron oxidoreductase is chosen from at least one laccase, at least one tyrosinase, at least one catechol oxidase and at least one polyphenol oxidase.

36. A composition according to claim 35, wherein said at least one 4-electron oxidoreductase is chosen from at least one laccase.

37. A composition according to claim 36, wherein said at least one laccase is chosen from laccases of plant origin, laccases of animal origin, laccases of fungal origin and laccases of bacterial origin.

38. A composition according to claim 36, wherein said at least one laccase is chosen from laccases obtained by biotechnological techniques.

39. A composition according to claim 37, wherein said at least one laccase of plant origin is chosen from: Anacardiacea chosen from *Magnifera indica, Schinus molle* and *Pleiogynium timoriense;* Podocarpacea; Rosmarinus off.; *Solanum tuberosum;* Iris sp.; Coffea sp.; *Daucus carrota; Vinca minor;* and *Persea americana; Catharanthus roseus;* Musa sp.; *Malus pumila; Gingko*